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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/684,472 10/06/2000		Suban Krishnamoorthy	PD99-2879	4021
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	HARTSON LLP	LEE, PHILIP C		
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Please find below and/or attached an Office communication concerning this application or proceeding.

1					
	Application No.	Applicant(s)			
Office Ashieus Communication	09/684,472	KRISHNAMOORTHY ET AL.			
Office Action Summary	Examiner	Art Unit			
	Philip C Lee	2154			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the (correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	36(a). In no event, however, may a reply be ti within the statutory minimum of thirty (30) da will apply and will expire SIX (6) MONTHS fron cause the application to become ABANDONE	mely filed ys will be considered timely. In the mailing date of this communication. ED (35 U.S.C. § 133).			
1) Responsive to communication(s) filed on <u>05 Ja</u>	anuary 2001.				
2a) ☐ This action is FINAL . 2b) ☐ This	action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
Claim(s) 1-17 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. Claim(s) is/are allowed. Claim(s) 1-17 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or election requirement.					
Application Papers	,				
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomplished any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine	epted or b) objected to by the drawing(s) be held in abeyance. Se ion is required if the drawing(s) is ob	ee 37 CFR 1.85(a). ojected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. §§ 119 and 120					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some color None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 13) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78. a) The translation of the foreign language provisional application has been received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78. 					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) D Notice of Informal	y (PTO-413) Paper No(s) Patent Application (PTO-152)			

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DETAILED ACTION

- 1. Claims 1-17 are presented for examination.
- 2. The specification is objected to because of the following informalities and grammar errors, page 6, line 30, "oO", page 8, line 11, "e", page 11, line 12, "day-today" [i.e. day-to-day]. Appropriate correction is required.

Claim Rejections - 35 USC 112

- 3. Claims 1-17 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
 - a. The following terms lack proper antecedent basis:
 - i. the group claim 1.
 - b. Claim language in the following claims is not clearly understood:
 - i. As per claim 3, line 2, it is unclear the integrated management agent further comprises "what" and a consistent user interface module?

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Claim Rejections – 35 USC 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.
- 5. The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).
- 6. Claims 1, 3-10 and 12-13 are rejected under 35 U.S.C. 102(e) as being anticipated by Mann et al, U.S. Patent 6,654,801 (hereinafter Mann).
- 7. As per claim 1, Mann taught the invention as claimed comprising: a network interconnection system (col. 5, lines 14-32);

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at least one machine selected from the group consisting of a host and an appliance, the machine coupled to the network interconnection system (fig. 1; col.4, lines 45-46); at least one storage system coupled to the network interconnection system (col. 4, lines 54-59);

a network management system (fig. 1);

wherein the network management system further comprises:

at least one management client (col. 4, lines 40-45); and

at least one integrated management agent running on a machine of the at least one machine (col. 4, lines 46-49); and

wherein the integrated management agent comprises an object manager configured such that the integrated management agent is expandable to support an additional network device types by installing device type-specific modules while the integrated management agent is running (fig. 6; col. 12, lines 13-47).

8. As per claim 3, Mann taught the invention as claimed in claim 1 above. Mann further taught wherein the integrated management agent further comprises a consistent user interface module coupled to the object manager, wherein at least one device type-specific module is installed (col. 6, lines 24-30), and wherein the at least one device type-specific module further comprises a device handler for coupling a storage system to the integrated management agent (col. 11, lines 14-22).

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9. As per claim 4, Mann taught the invention as claimed in claim 3 above. Mann further taught wherein at least one device type-specific module further comprises code for supporting a plurality of protocols to communicate with a plurality of devices (col. 6, lines 49-54).

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- 10. As per claim 5, Mann taught the invention as claimed in claim 4 above. Mann further taught wherein the management system further comprises a distributed error and status handler capable of handling error and status information from at least one device (col. 11, lines 39-col. 12, lines 12).
- 11. As per claim 6, Mann taught the invention as claimed in claim 5 above. Mann further taught wherein at least a first level of the distributed error and status handler executes on the at least one device (col. 9, lines 54-65).
- 12. As per claims 7 and 8, Mann taught the invention as claimed in claim 5 above. Mann further taught wherein at least one machine selected from a group consisting of a host and an appliance, incorporates a second level of error and status handler (col. 9, lines 6-35).
- 13. As per claim 9, Mann taught the invention as claimed in claim 8 above. Mann further taught wherein the centralized global error and status handler level executes upon a fault tolerant system in a storage are network management environment (col. 9, lines 66-col. 10, lines 18).

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14. As per claim 10, Mann taught the invention as claimed in claim 1 above. Mann further taught wherein the integrated management agent further comprises a trap handler coupled to a notification module to receive traps from at least one SAN device and send notification to at least one system administrator (col. 8, lines 56-col. 9, lines 12).

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- 15. As per claim 12, Mann taught the invention as claimed in claim 1 above. Mann further taught wherein the integrated management system is capable of being configured with a configuration utility (col. 9, lines 66-col. 10, lines 18).
- 16. As per claim 13, Mann taught the invention as claimed in claim 1 above. Mann further taught wherein the object manager further comprises a dynamic list indicating device types the integrated management agent is capable of handling, wherein installing device type-specific modules causes addition of device types to the dynamic list, and wherein addition of device types to the dynamic list does not require shutting down the integrated management agent (col. 10, lines 67-col. 11, lines 26).

Claim Rejections - 35 USC 103

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17. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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- 18. Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Mann in view of "Official Notice".
- 19. As per claim 2, Mann taught wherein the integrated management agent further comprises a consistent user interface module, and wherein the consistent user interface module supports a Windows-based user interface (col. 4, lines 25-29). Mann did not specifically show detailing the consistent user interface module supports a web-based user interface. However, Mann taught the consistent user interface module could be used with different implementations and may included other types of operating systems, computing platforms, computer programs, firmware, etc (col. 4, lines 30-33). "Official Notice" is taken that the consistent user interface module supports a web-based user interface is well known and expected in the art. It would have been obvious to one having ordinary skill in the art at the time of the invention was made to include different implementation such as a web-based user interface because by doing so would increased the usability of the integrated management agent.
- 20. Claim 11 is rejected under 35 U.S.C. 103(a) as being unpatentable over Mann in view of Singh et al, U.S. Patent 5,758,083 (hereinafter Singh).

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- As per claim 11, Mann did not teach sending traps to support at least a second management system. Singh taught wherein the integrated management agent further capable of sending traps to support at least a second management system (col. 2, lines 8-25; col. 21, lines 40-50).
- 22. It would have been obvious to one having ordinary skill in the art at the time of the invention was made to combine the teachings of Mann and Singh because Singh's method of sending traps to a second management system would increased the user alertness of Mann's system by allowing user to take corrective action to improve network performance by taking into consideration important network information about remote networks (col. 4, lines 58-62)
- 23. Claim 14 is rejected under 35 U.S.C. 103(a) as being unpatentable over Mann in view of Tawil, U.S. Patent 6,421,723 (hereinafter Tawil).
- As per claim 14, Mann taught the invention as claimed in claim 13 above. Mann did not teach the network interconnection system comprises at least one fibre channel switch. Tawil taught wherein the network interconnection system further comprises at least one fibre channel switch, and wherein a device type specific module is type specific to the at least one fibre channel switch (col. 3, lines 50-col. 4, lines 3).

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25. It would have been obvious to one having ordinary skill in the art at the time of the invention was made to combine the teachings of Mann and Tawil because Tawil's method of including a fibre channel switch would enhanced Mann's system by using fibre channel technology to allow data and network protocols to coexist on the same physical media (col. 4, lines 12-19).

- 26. Claims 15-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mann in view of Chrabaszcz, U.S. Patent 6,212,585 (hereinafter Chrabaszcz).
- 27. As per claim 15, Mann taught the invention as claimed in claim 1 above. Mann did not teach a firmware download module. Chrabaszcz taught wherein the integrated management system further comprises a firmware download module with unified user interface hiding device specific firmware download process and characteristics from the administrator (col. 10, lines 49-col. 11, lines 15).
- 28. It would have been obvious to one having ordinary skill in the art at the time of the invention was made to combine the teachings of Mann and Chrabaszcz because Chrabaszcz's method of automatically downloading the firmware for a device would increased the efficiency of Mann's system by avoiding the time consuming and tedious process of manually loading an appropriate driver for the device (col. 3, lines 15-27).

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As per claims 16 and 17, Mann taught the invention as claimed in claim 1 above. Mann did not teach the different element of the conglomerate method. Chrabaszcz taught wherein the integrated management agent is capable of discovering devices and agents in the SAN and their interconnection by applying a conglomerate method comprising at least two elements selected from the group consisting of host and device agent broadcasting, multicasting device identity, collecting addresses from network traffic, collecting information from a name server, scanning a set of ranges of address supplied in configuration information, and collecting information about devices from configuration information (col. 9, lines 49-col. 10, lines 49).

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30. It would have been obvious to one having ordinary skill in the art at the time of the invention was made to combine the teachings of Mann and Chrabaszcz because Chrabaszcz's method of discovering devices and agents in the SAN and their interconnection would increased the efficiency of Mann's system by avoiding the time consuming and tedious process of manually configuring new devices added to the integrated management agent.

CONCLUSION

31. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

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McCormack et al, U.S. Patent 6,360,255, disclosed a method of automatically adding a

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device with a network management system.

Remy et al, U.S. Patent 5,931,911, disclosed a system for monitoring and integrating

devices with different protocols.

32. A shortened statutory period for reply to this Office action is set to expire THREE

MONTHS from the mailing date of this action.

33. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Philip C Lee whose telephone number is (703)305-7721. The

examiner can normally be reached on 8 AM TO 5:30 PM Monday to Thursday and every other

Friday.

34. If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, John Follansbee can be reached on (703)305-8498. The fax phone number for the

organization where this application or proceeding is assigned is (703)746-7239.

35. Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is (703)350-6121.

JOHN FOLLANSBEE
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2:00